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1.	Your reference	JPP136		
2.	Patent application number (The Patent Office will fill in this part)	0213618.2	14 JUN 2002	
3.	Full name, address and postcode of the or of each applicant (<u>underline all surnames</u>)	Altro Limited Works Road Letchworth Hertfordshire SG6 1NW England Patents ADP number (if you know it) If the applicant is a corporate body, give the country/state of its incorporation		
4.	Title of the invention	Improved Finishing for Floor Covering		
5.	Name of your agent (if you have one)	Barker Brettell		
	"Address for service" in the United Kingdom to which all correspondence should be sent (including the postcode)	138 Hagley Road Edgbaston Birmingham B16 9PW Patents ADP number (if you know it) 7442494002		
6.	If you are declaring priority from one or more earlier patent applications, give the country and the date of filing of the or of each of these earlier applications and (if you know it) the or each application number	Country	Priority application number (if you know it)	Date of Filing (day/month/year)
7.	If this application is divided or otherwise derived from an earlier UK application, give the number and the filing date of the earlier application	Number of earlier application		Date of filing (day/month/year)
8.	Is a statement of inventorship and of right to grant of a patent required in support of this request (Answer 'Yes' if: a) any applicant named in part 3 is not an inventor, or b) there is an inventor who is not named as an applicant, or c) any named applicant is a corporate body. See note (d))	YES		

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Description 11 + 11

Claim(s)

Abstract

Drawing(s) 4 + 4

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Statement of inventorship and right to grant of a patent (*Patents Form 7/77*)

Request for preliminary examination
(*Patents Form 9/77*)

Request for substantive examination
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Any other documents
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11. I/We request the grant of a patent on the basis of this application.

Signature

Date

Barker Brettell

13/06/02

Barker Brettell

12. Name and daytime telephone number of person to contact in the United Kingdom

Miss Priscilla M. Makovski

TEL: 0121-456 1364

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IMPROVED FINISHING FOR FLOOR COVERING

The present invention relates to finishing floor coverings.

5 When a floor covering such as a synthetic floor covering is laid, the edge of the floor covering has to be finished so that the resultant covered floor is tidy and aesthetically pleasing. This may be achieved by cutting the floor covering to size so that the floor covering is flush to the edge of the floor area. Alternatively, the floor covering may be cut to a size greater
10 than the floor so that a length of the floor covering continues up the adjacent wall and is attached thereto. If the floor covering is laid up the lower part of the wall in this way, a coved section is desirably formed at the edge at which the floor and the wall meet. This is generally achieved by means of a cove former, which is attached to the wall and floor by
15 contact adhesive, and produces a curved surface over which the floor covering may be laid. There is then the matter of finishing the edge of the floor covering. This is generally achieved by the use of a capping unit, which is attached to the wall at a suitable height. The edge of the floor covering can then be attached to the capping unit in order to provide
20 a tidy finish.

According to a first embodiment of the present invention a finishing unit for floor covering has a lower section adapted to engage a floor and an upper section adapted to engage an adjacent wall, with the area of the
25 lower section adjacent the upper section being adapted so that floor covering laid over said area forms a curved surface and wherein the finishing unit is provided with attaching means suitable for attaching the finishing unit to the floor or wall where it is to be used and/or suitable for attaching the finishing unit to the floor covering.

Preferably, the finishing unit according to the first embodiment has both an upper section and a lower section which are substantially rigid.

5 According to an alternative first embodiment of the present invention a finishing unit for floor covering has a lower section adapted to engage a floor and an upper section adapted to engage an adjacent wall, with the area of the lower section adjacent the upper section being adapted so that floor covering laid over said area forms a curved surface and wherein the lower section and the upper section of the finishing unit are substantially
10 rigid.

Preferably, the finishing unit of the alternative first embodiment is provided with attaching means suitable for attaching the finishing unit to the floor or wall where it is to be used and/or suitable for attaching the
15 finishing unit to the floor covering.

It is advantageous for the finishing unit of the present invention to have an upper section and a lower section which are substantially rigid. A finishing unit having a substantially rigid upper section and lower section
20 provides a consistent surface onto which the floor covering can be laid. For example, a consistently smooth and/or consistently flat surface can be provided by use of a substantially rigid upper and lower section.

25 Preferably the finishing unit of the present invention comprises a backing part which has a front face and a back face, and an upper section and a lower section, wherein the area of the lower section adjacent to the upper section is adapted so that floor covering laid over said area forms a curved surface.

30 At least one of the front face and the back face of the backing part are preferably provided with attaching means. More preferably both the front

face and the back face of the backing part are provided with attaching means.

5 Preferably, some or all of the surface of the backing part is provided with cured or substantially cured adhesive. The cured or substantially cured adhesive is preferably covered with a removable protective liner, which when removed exposes the cured or substantially cured adhesive so that it may be used to attach the unit to a surface. The liner may be, for example, a suitably treated paper such as paper coated with silicone on at least the side which will be in contact with the adhesive, preferably paper
10 coated on both sides with silicone.

The backing part preferably has a substantially J-shaped profile, more preferably it comprises a substantially straight upper section and a curved
15 lower section. Preferably, the backing part is rigid. It is preferred that the backing part is made from rigid plastics material, such as rigid PVC.

It is also preferred that some or all of the backing part is ridged. Preferably, the backing part is formed from ridged material such as
20 ridged plastics material, for example ridged PVC. It is beneficial to use ridged material as this results in a stronger unit that is less prone to damage or failure. Ridged material is also able to cover over bad wall or floor finishes and allows mitres to be more easily formed at corners.

25 Preferably, some or all of the lower section of the backing part is substantially in the shape of a quarter circle. The radius of the quarter circle may be selected to give an appropriately sized curve depending on the size of coving required.

30 The finishing unit may be provided in any suitable length and height.

The finishing unit may suitably be provided with means for attaching the unit to the wall or floor surface where it is to be used. Preferably, some or all of the back face of the backing part of the unit is provided with cured or substantially cured adhesive. The cured or substantially cured
5 adhesive may be, for example, an acrylic based adhesive such as pure acrylic adhesive. The adhesive may preferably be covered with a removable protective liner as described above.

The cured or substantially cured adhesive may be provided directly on the
10 unit, covering some or all of the back face of the backing part of the unit. Preferably, the cured or substantially cured adhesive is provided indirectly on the unit with a piece of material covering some or all of the back face of the backing part of the unit, said material being attached to
15 the unit by any suitable means and being provided with a coating of cured or substantially cured adhesive. The material may be any suitable material. For example, a cushioning material such as foam material.

The finishing unit may also be adapted so as to provide one or more holes suitable for use in attaching the unit to a surface. For example, holes
20 may be provided in the backing part suitable for allowing the unit to be attached to a surface by means of mechanical fastening means such as screws.

Preferably, the finishing unit is also provided with a means for attaching
25 floor covering to the unit. For example, some or all of the front face of the backing part of the unit may be covered with cured or substantially cured adhesive. The cured or substantially cured adhesive is preferably an adhesive as described above. The adhesive may be directly provided on the unit. Preferably, the adhesive is provided indirectly on the unit, in
30 a manner as described above. The adhesive is preferably covered with a liner as described above.

Preferably both the front face and the back face of the backing part are provided with cured or substantially cured adhesive covered with a protective removable liner.

5

The use of cured or substantially cured adhesive on the finishing unit of the present invention removes the need for contact adhesive to be used in attaching the unit to surfaces such as walls, floors and floor coverings. This is beneficial in terms of health and safety. Standard contact
10 adhesives suitable for use in such an application, for example those generally used in attaching cove formers to wall and floor surfaces and floor covering to cove formers, will tend to contain solvents such as toluene, which require suitable ventilation or are subject to other health and safety requirements. Water based solvents are generally not suitable
15 for such applications, as the water is slow to evaporate and therefore the adhesive takes a long time to be ready for use. It is clearly particularly beneficial for both the front and back faces of the backing part to be provided with cured or substantially cured adhesive covered with a protective removable liner.

20

Further, a unit provided with cured or substantially cured adhesive is quicker to install than a unit whereby contact adhesive is used, as it is only necessary to remove the covering liner and join the surfaces, whereas when contact adhesive is used the adhesive has to first be applied
25 to both surfaces being attached and then it is necessary to wait for the adhesive to cure before the surfaces are attached together.

The upper section of the finishing unit may be adapted to provide a downwardly directed channel for receiving an edge of the floor covering.
30 The finishing unit may include a capping part wherein the capping part together with the front face of the upper section of the backing part forms

a channel having an entrance facing substantially towards the lower section of the backing part.

Accordingly the present invention may provide a one piece system that
5 both allows a coved area to be formed between a floor and an adjacent wall and allows the edge of floor covering laid up said wall to be capped to give a neat finish.

The capping part and the front face preferably together form a channel
10 that is narrower at its entrance than at its closed end. It is preferred that the channel runs along all or substantially all of the length of the unit.

The capping part may be integral with the backing part, or may be attached to the backing part. Preferably, the capping part is attached to
15 or near to an edge of the upper section of the backing part. For example, the capping part may be attached to the top edge of the upper section of the backing part by means of an adhesive.

The capping part is preferably flexible. Preferably, the capping part is
20 made from flexible plastics material such as flexible PVC. It is preferred that the capping part comprises a channel forming section, which together with the front face of the upper section of the backing part forms a channel, and an upstanding section, which is dimensionally adapted so that in use it will fit against the wall to which the unit is attached. The
25 upstanding section may, for example, substantially follow the line of the backing part of the unit. The use of a flexible capping part with an upstanding section is beneficial as this enables the unit to be used to form a watertight junction with the wall or wall finish, e.g. wall tiles, water resistant paint or laminated sheet.

Alternatively, the finishing unit may not be provided with a capping part. In such a case, finishing of the floor covering may be achieved by use of a conventional capping unit as known in the art. Preferably, the capping unit comprises a back section adapted to engage a wall and a front section, with the back section and front section together forming a downwardly directed channel. Some or all of the surface of the back section of the capping unit may be provided with cured or substantially cured adhesive. Preferably the cured or substantially cured adhesive is provided with a removable protective liner as described above.

10

When the finishing unit is not provided with an integral capping unit, the upper section of the backing part is preferably tapered towards the top; such that the uppermost edge of the upper section has a thickness less than that of the part of the upper section adjacent the lower section. This improves the ability of the finishing unit to cover uneven wall surfaces.

15

Accordingly, the present invention also provides a finishing system comprising a finishing unit as described above and a capping unit as described above.

20

The present invention also provides a coving kit which comprises a finishing unit according to the first embodiment or alternative first embodiment of the present invention, an adhesive system, and, optionally a capping unit as described above, wherein the adhesive system comprises a substrate such as foam or paper provided on both sides with cured or substantially cured adhesive covered with a removable protective layer.

25

The present invention also provides a method of finishing an edge of a piece of floor covering which comprises attaching a length of a finishing unit as detailed above to a section of wall and adjacent floor, attaching the edge area of the floor covering to the front face of the finishing unit

30

and cutting the floor covering to a size such that the edge of the floor covering can be secured in the downwardly directed channel of the unit.

5 In a preferred method, the finishing unit is attached to the wall and adjacent floor at least by means of a cured or substantially cured adhesive as described above. Preferably any liner covering the cured or substantially cured adhesive on the back face of the backing part is removed, and the unit is then attached to the section of the wall and adjacent floor where finishing is required by means of the adhesive.

10

It is further preferred that mastic such as Altromastic is also used to adhere the unit to the wall and adjacent floor; this may suitably be applied to the back face of the backing part before attaching the unit to the wall and adjacent floor. The use of mastic as well as the cured or substantially
15 cured adhesive provides an initial adhesion as well as taking up any undulations in the wall or floor surface.

It is also preferred that the edge area of the floor covering is attached to the finishing unit at least by means of a cured or substantially cured
20 adhesive as described above. Preferably any liner covering the cured or substantially cured adhesive on the back face of the backing part is removed, and the floor covering is then attached to the front face of the backing part of the unit by means of the adhesive.

25 It is further preferred that once the floor covering has been attached to the front face of the backing part and subsequently cut to size such that the edge of the floor covering can be tucked into the channel, the edge is attached to the inside of the channel. Preferably the edge of the floor covering is attached to the inside of the channel by means of cured or
30 substantially cured adhesive.

Specific embodiments of the invention are further described with reference to the drawings, in which:

5 **Figure 1** is a cross section through a finishing unit of the present invention;

Figure 2 is a perspective view of the finishing unit of **Figure 1**;

10 **Figure 3** is a cross section through an alternative finishing unit of the present invention; and

Figure 4 is a perspective view of the finishing unit of **Figure 3**.

15 Figures 1 and 2 and 3 and 4 show embodiments of the present invention. The finishing unit 11, 111 for floor covering has a lower section 12b, 112b adapted to engage a floor and an upper section 12a, 112a adapted to engage an adjacent wall, with the area of the lower section adjacent the upper section being adapted so that floor covering laid over said area forms a curved surface.

20 The finishing unit 11, 111 comprises a backing part 12, 112. The unit has a height of 100mm and a depth of 38mm.

25 The backing part 12, 112 is substantially J-shaped, with a substantially straight upper section 12a, 112a and a curved lower section 12b, 112b. The curved lower section is substantially in the shape of a quarter circle, with a radius of curvature of 38mm. The backing part is made from ridged, rigid PVC.

30 The back face of the backing part 12, 112 is provided with a strip of covered adhesive 14, 114 along the length of the unit. This comprises a

strip of foam material, covered with a layer of substantially cured adhesive covered with a protective removable liner. The adhesive is a pure acrylic adhesive and the liner is naturally coloured paper coated on both sides with silicone. The thickness of the liner and adhesive is 220microns. The thickness of the foam material is 0.8mm.

The front face of the backing part 12, 112 is also provided with a strip of covered adhesive 14, 114 along the length of the unit. The strip of covered adhesive covers substantially all of the front face of the backing part.

The finishing unit 11 shown in Figures 1 and 2 further comprises a capping part 13. The capping part 13 comprises a channel forming section 13a and an upstanding section 13b. The channel forming section 13a is shaped so as to form a channel 15 with the front face of the backing part, with the channel being substantially in the shape of an upside down U and the entrance to the channel being narrower than the closed end. The channel 15 is 12mm in depth, has a maximum width towards its closed end of 4mm and a width at its entrance of 1.5mm and runs the length of the unit. The upstanding section 13b substantially follows the line of the backing part 12 but is slightly curved in the direction of the back face of the backing part. The capping part 13 is made from flexible PVC.

The finishing unit 111 shown in Figures 3 and 4 has a tapered section 116 at the upper end of the upper section 112a of backing part 112. The finishing unit 111 shown in Figures 3 and 4 may suitably be used in combination with a conventional capping unit as known in the art. The lower end of the tapered section 116 is 2mm in depth and the upper end of the tapered section 116 is 0.5mm in depth.

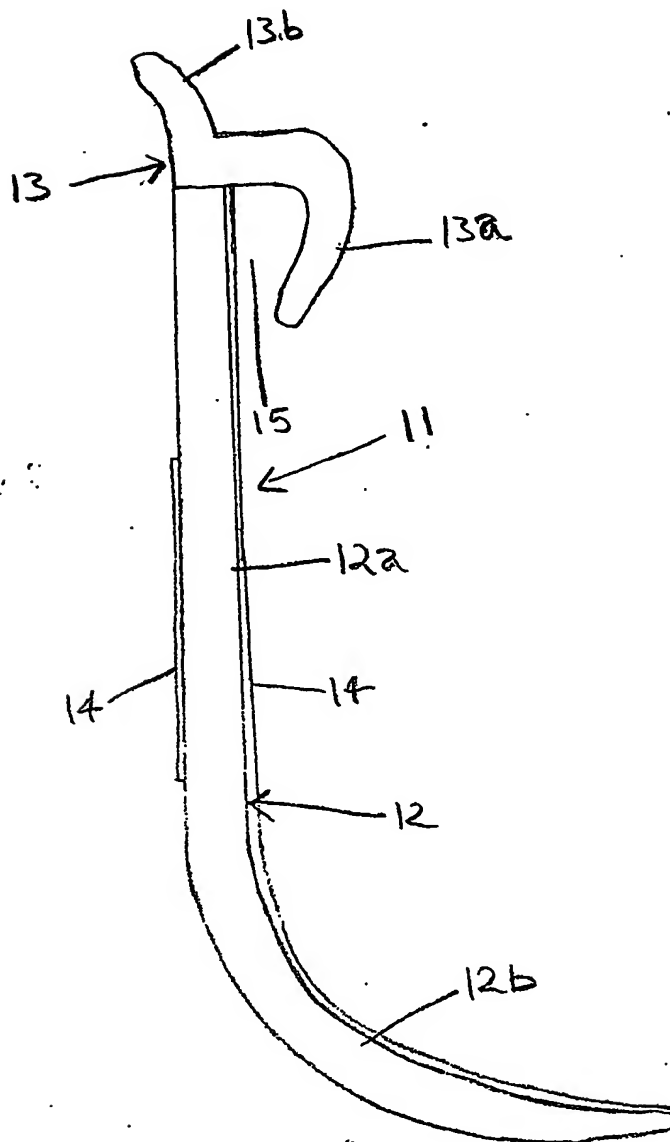
The dimensions of the finishing unit given above are exemplary and it is to be understood that finishing units of other dimensions may also suitably be used.

- 5 The finishing unit of the preferred embodiment may suitably be used as follows:

10 Firstly, the desired length of finishing unit is cut. Generally the finishing unit may be provided in lengths of 2m from which the required length can be cut. The liner covering the cured or substantially cured adhesive on the back face of the backing part is then removed. Mastic such as Altromastic may be applied to the back face of the backing part. The unit is then attached to the section of the wall and adjacent floor where finishing is required by means of the adhesive and the mastic, such that
15 the curved lower section of the backing part covers the join between wall and floor.

The floor covering material is cut to approximately the required size and laid on the floor. The liner covering the cured or substantially cured
20 adhesive on the front face of the backing part is then removed, and the adhesive is used to attach the edge area of the floor covering to the front face of the unit. The floor covering may then be cut to size so as to fit into a channel formed between the front face of the backing part and the capping part. Alternatively, the floor covering may then be cut to size so
25 as to fit into a channel provided by a conventional capping unit. The edge of the floor covering is then inserted into said channel.

Figure 1



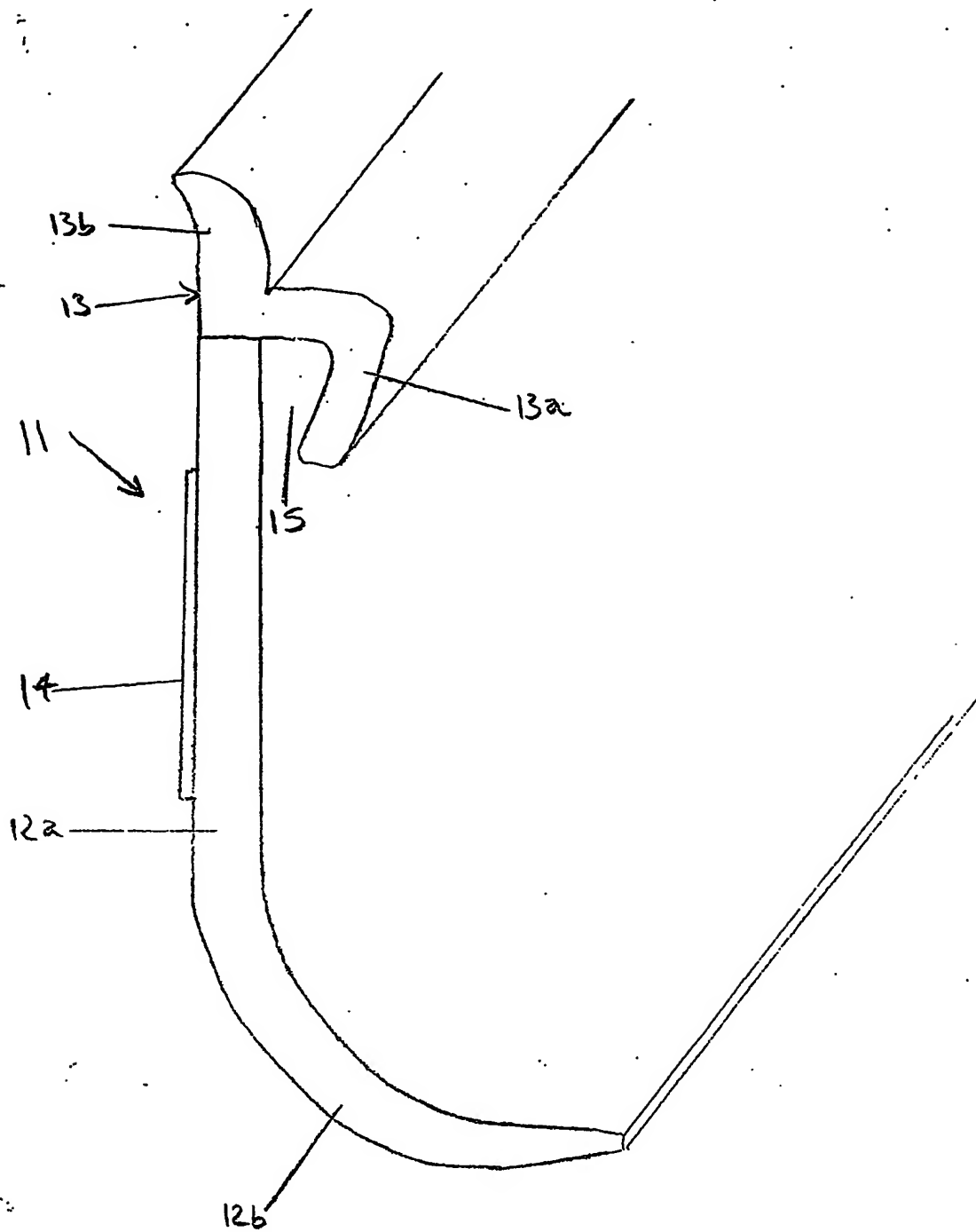
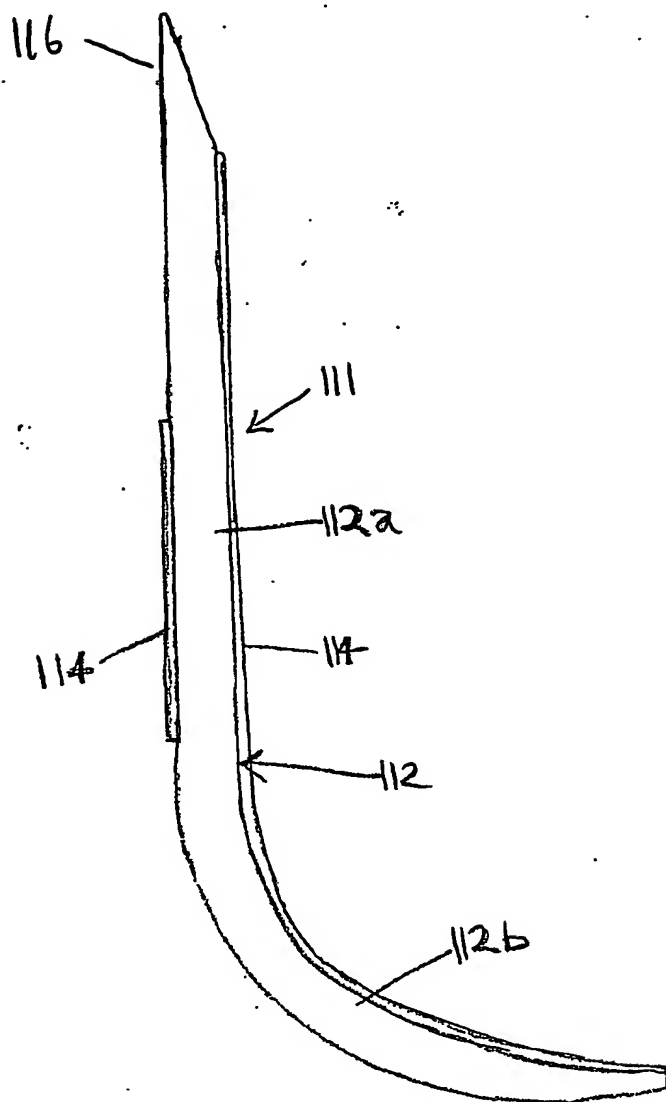


Figure 2

Figure 3



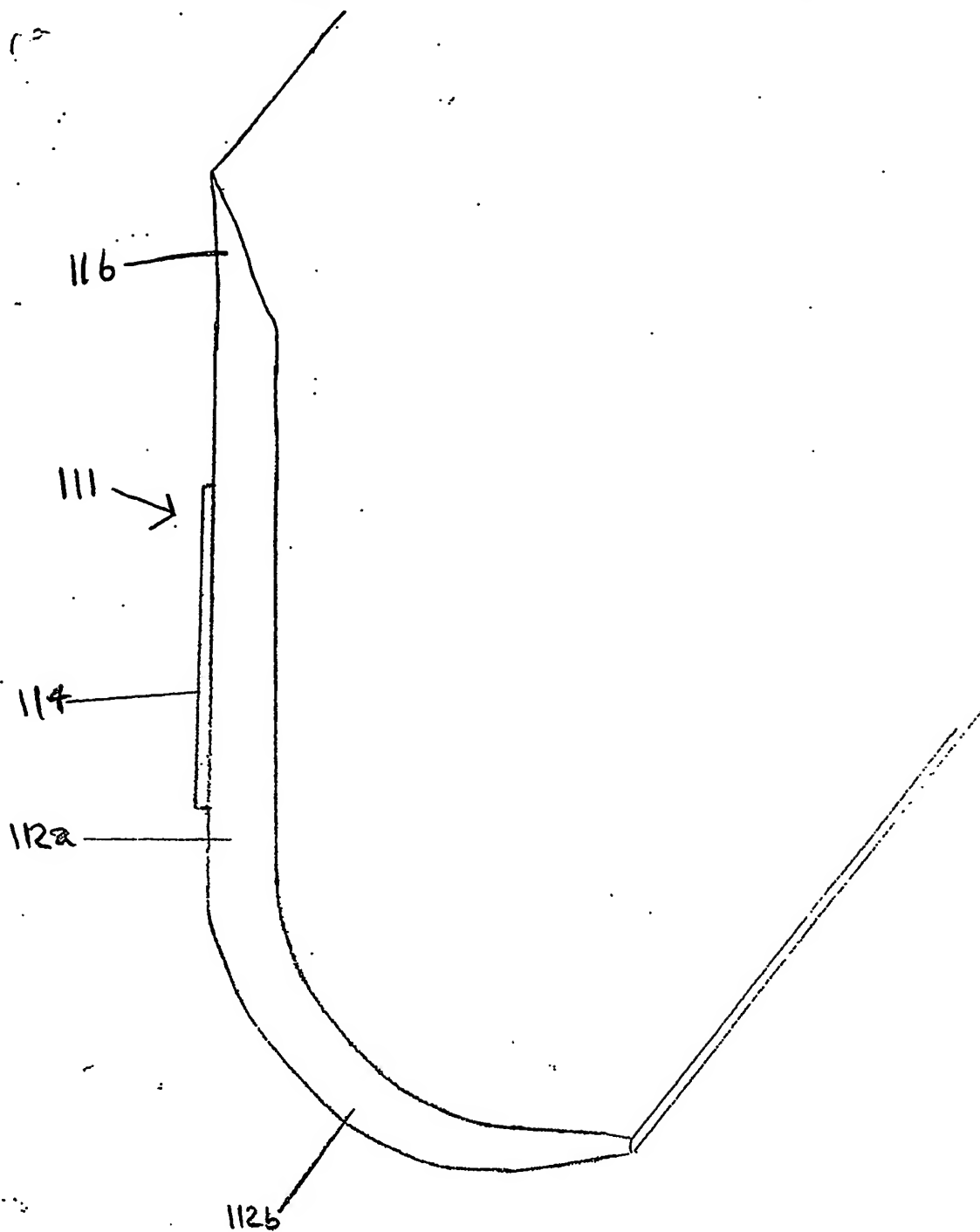


Figure 4

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